

***LineUp With Math™* Alignment**
Academic Content Standards - Mathematics

Mathematical Processes Standard

Benchmarks Grades 5-7

B. Apply and adapt problem-solving strategies to solve a variety of problems, including unfamiliar and non-routine problem situations.

***LineUp With Math™* Activities**

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

C. Use more than one strategy to solve a problem, and recognize there are advantages associated with various methods.

--Explore and apply a variety of strategies to optimize the solution of air traffic control conflicts.

D. Recognize whether an estimate or an exact solution is appropriate for a given problem situation.

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.

G. Relate mathematical ideas to one another and to other content areas; e.g., use area models for adding fractions, interpret graphs in reading, science and social studies.

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

H. Use representations to organize and communicate mathematical thinking and problem solutions.

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

I. Select, apply, and translate among mathematical representations to solve problems; e.g., representing a number as a fraction, decimal or percent as appropriate for a problem.

--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

J. Communicate mathematical thinking to others and analyze the mathematical thinking and strategies of others.

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.